

## Explosionproof LED Luminaire KRATEX LED

50,000 h product life  
Zone 1 and 21

**5 YEARS**  
warranty

IP 66	IK 10 IK 07
Frequency 0-50/60Hz	Rated voltage 220-240V
850°C	NON-SELV
UV	+40°C -20°C



KRATEX NS HE 600 2000-840 ET GLASS

### General characteristics

- LED Luminaire manufactured with high quality materials that guarantee long product life.
- Explosion protection is a delicate and complex issue. Human lives may depend on it. Zalux offers you reliable explosione protected lighting equipped with state of the art LED technology. Designed to be used in hazardous areas where an explosive atmosphere persists for a short period as standard illumination or as emergency illumination.
- 2 Entries of 3/4" NPT for cable gland (not included).
- Gasket NBR.
- Diffuser tube made of UV resistant polycarbonate or 3.3 borosilicate glass.
- Ends of the housing made of aluminium alloy with yellow polyurethane finish (RAL 1003)
- KRATEX LED is perfectly suitable for use in EX-Zones according to ATEX directive 2014/34/EU

II 2 G Ex db IIC T6 Gb

II 2 D Ex tb IIIC T85 Db

### Accessories (optional)

Fixing accessories (choose between):

- 10078101 Eye bolts bag  
10078102 Fixing omegas

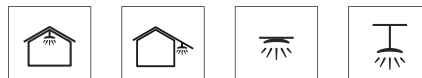
### Cable gland (optional)

- 10078103 Single cable gland  
10078104 Double cable gland

### Applications recommendation

- Pharmaceutical
- Chemical industry
- Oil and gas sites
- Food and agricultural industry
- Industrial facilities

### Mounting possibilities



### Product Options

- Emergency kit: Permanent, non-permanent or combined



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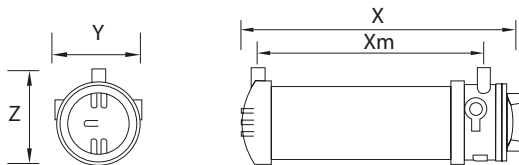
### General technical data

Rated voltage range	220V-240V
Rated frequency	0-50Hz/60Hz
Class	I
Protection rating	IP66
Impact resistance	IK10 PC / IK07 Borosilicate glass
UV protection	Diffuser tube with UV protection
Fire protection: Flammability (UL94)	PC: V2
Fire protection: Glow wire test (EN 60695-2-11):	PC: 850 °C / Borosilicate glass: 850 °C
THD	< 10%
Chemical agents resistance	See appendix
CRI protection class	> 80
Useful Life	L80, 50000 h

### Operating data | Dimensions

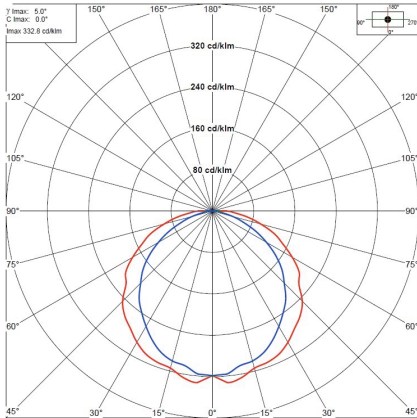
Designation	Special features	Luminous Flux	Emergency operation	Efficiency	Connection load	Color Temperature	X	Xm	Y	Z
		lm	lm	lm/W	W	K	mm	mm	mm	mm
KRATEX NS HE 600 2000-840 ET PC		2500	—	113	22	4000	750	640	157	197
KRATEX NS HE 600 2000-840 ET GLASS		2500	—	113	22	4000	750	640	157	197
KRATEX NS HE 600 2000-840 ET PC EB1	Emergency battery 1h	NM*	750	—	4	4000	750	640	157	197
KRATEX NS HE 600 2000-840 ET GLASS EB1	Emergency battery 1h	NM*	850	—	4	4000	750	640	157	197
KRATEX NS HE 600 2000-840 ET PC EB3	Emergency battery 3h	NM*	750	—	5	4000	750	640	157	197
KRATEX NS HE 600 2000-840 ET GLASS EB3	Emergency battery 3h	NM*	850	—	5	4000	750	640	157	197
KRATEX NS HE 1200 4000-840 ET PC		4900	—	122	40	4000	1360	1250	157	197
KRATEX NS HE 1200 4000-840 ET GLASS		5000	—	125	40	4000	1360	1250	157	197
KRATEX NS HE 1200 4000-840 ET PC EB1	Emergency battery 1h	4250	800	96	44	4000	1360	1250	157	197
KRATEX NS HE 1200 4000-840 ET GLASS EB1	Emergency battery 1h	5000	850	113	44	4000	1360	1250	157	197
KRATEX NS HE 1200 4000-840 ET PC EB3	Emergency battery 3h	4250	800	94	45	4000	1360	1250	157	197
KRATEX NS HE 1200 4000-840 ET GLASS EB3	Emergency battery 3h	5000	850	110	45	4000	1360	1250	157	197

\*NM: Non-maintained mode



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### Light characteristic



KRATEX NS HE 600 2000-840 ET PC

Other models similar distribution with different intensities

### Logistical data

Designation	Order Number	 L x W x H mm	 Pcs./Box	 Box	 Groupage Pcs./Euro palett	 Double pallet Pcs./Euro palett
KRATEX NS HE 600 2000-840 ET PC	10169101	780 x 240 x 180	1	8.5	56	40+40
KRATEX NS HE 600 2000-840 ET GLASS	10169102	780 x 240 x 180	1	9.5	56	40+40
KRATEX NS HE 600 2000-840 ET PC EB1	10169103	780 x 240 x 180	1	9.0	56	40+40
KRATEX NS HE 600 2000-840 ET GLASS EB1	10169104	780 x 240 x 180	1	10.0	56	40+40
KRATEX NS HE 600 2000-840 ET PC EB3	10169105	780 x 240 x 180	1	9.5	56	40+40
KRATEX NS HE 600 2000-840 ET GLASS EB3	10169106	780 x 240 x 180	1	10.6	56	40+40
KRATEX NS HE 1200 4000-840 ET PC	10169107	1390 x 240 x 180	1	15.9	28	20+20
KRATEX NS HE 1200 4000-840 ET GLASS	10169108	1390 x 240 x 180	1	17.3	28	20+20
KRATEX NS HE 1200 4000-840 ET PC EB1	10169109	1390 x 240 x 180	1	16.2	28	20+20
KRATEX NS HE 1200 4000-840 ET GLASS EB1	10169110	1390 x 240 x 180	1	17.6	28	20+20
KRATEX NS HE 1200 4000-840 ET PC EB3	10169111	1390 x 240 x 180	1	16.8	28	20+20
KRATEX NS HE 1200 4000-840 ET GLASS EB3	10169112	1390 x 240 x 180	1	18.2	28	20+20

For logistic estimations please contact our sales backoffice team

## Explosionproof LED Luminaire KRATEX LED

### Approvals and markings



### Conformity to standards

#### Electrical equipment designed to be used with certain voltage limitations

EN 60598-1	Luminaires - Part 1: General requirements and tests
EN 60598-2-1	Luminaires - Part 2: Particular requirements. Section 1: General purpose luminaires

#### Electromagnetic compatibility

EN 55015	Limits and methods of measurement of radio disturbance characteristics of electric lighting and similar equipment. Characteristics of electric lighting and similar equipment
EN 61000-3-2	Electromagnetic compatibility (EMC) Part 3-2: Limits - Limits for harmonic current emissions
EN 61000-3-3	Part 3-3: Limits - Limitation of voltage changes, voltage fluctuations and flicker in public low-voltage supply systems
EN 61547	Equipment for general lighting purposes EMC immunity requirements
EN 62471	Photobiological safety of lamps and lamp system
EN 62493	Assessment of lighting equipment related to human exposure to electromagnetic fields



EN 60079-0:20012/A11:2013, EN 60079-1:2014, EN 60079-31:2014  
ATEX Directive 2014/34 EU

## APPENDIX

Chemical Agents	Polyester	Polycarbonate	Aluminium	PMMA	Stainless steel
Acetic acid 10%	✓	✓	✓	✓	✓
Acetone	∅	X	✓	X	✓
Alcoholic beverages	✓	✓	✓	∅	✓
Aluminium sulphate	✓	✓	✓	✓	∅
Ammonia 5%	∅	X	✓	✓	✓
Aniline	∅	X	✓	X	✓
Arsenic acid 20%	∅	✓	✓	✓	✓
Benzene	X	X	✓	X	∅
Bencylic alcohol	X	X	∅	X	∅
Bromine	X	X	X	X	X
Calcium Chloride	✓	✓	✓	✓	∅
Calcium nitrate	✓	✓	✓	✓	∅
Carbon tetrachloride	X	X	✓	X	∅
Carbonic acid	✓	X	✓	X	✓
Caustic potash 5%	X	X	X	✓	∅
Cement	✓	✓	✓	✓	∅
Hydrochloric acid 1-5%	∅	✓	X	✓	X
Chlorine liquids (vapours)	X	X	X	X	∅
Chloroform	X	X	✓	X	✓
Chromic acid	X	∅	X	∅	∅
Citric acid 20%	✓	✓	✓	✓	∅
Copper sulphate	✓	✓	X	✓	∅
Diesel-naphta oil	✓	∅	✓	✓	✓
Ethyl alcohol 30%	✓	✓	✓	∅	✓
Ethyl chloride	X	X	∅	X	✓
Ethyl ether	✓	X	✓	X	∅
Food oils and fats	✓	X	✓	✓	✓
Formic acid 10%	∅	✓	X	✓	∅
Glycerine	✓	✓	✓	✓	✓
Hexane	∅	✓	✓	✓	✓
Iodine	✓	X	∅	✓	X
Isopropylic alcohol	✓	∅	✓	∅	∅
Lubricating oil	✓	✓	✓	✓	✓
Magnesium sulphate	✓	✓	✓	✓	✓
Methanol	✓	X	✓	∅	✓
Mineral oils	✓	✓	✓	✓	✓
Nitric acid 20%	X	∅	X	✓	✓
Oxygen	✓	✓	✓	✓	✓
Ozone	✓	✓	✓	✓	∅
Perchloric acid 10%	X	✓	X	✓	X
Petrol	✓	X	✓	✓	✓
Phenol	∅	X	✓	X	∅
Potassium bromide	✓	✓	∅	✓	∅
Potassium nitrate	✓	✓	✓	✓	∅
Potassium permanganate	✓	✓	✓	✓	∅
Sea climate	✓	✓	∅	✓	∅
Silicon oils	✓	✓	✓	∅	✓
Soda bleach 15%	✓	X	∅	✓	∅
Sodium chloride	✓	✓	∅	✓	∅
Sodium hydroxide 5%	✓	X	X	✓	∅
Sodium sulphate	✓	✓	✓	✓	∅
Sugar	✓	✓	✓	✓	✓
Sulphur	✓	✓	✓	✓	∅
Sulphuric acid 30%	X	✓	X	✓	X
Toluene	X	X	✓	X	✓
Trichloroethylene	X	X	✓	X	∅
Zinc sulphate	✓	✓	∅	✓	∅

✓ Resistant    ∅ Relatively resistant    X Non-resistant